

Books:

1. A. Iksanov. [Renewal theory for perturbed random walks and similar processes](#). Probability and its Applications, Birkhäuser, 2016.

Preprints:

1. G. Alsmeyer, D. Buraczewski, **A. Iksanov**. [Null-recurrence and transience of random difference equations in the contractive case](#), submitted, 24 pages.
2. **A. Iksanov**, W. Jedidi, F. Bouzeffour. [Functional limit theorems for the number of busy servers in a \$\(G/G/\infty\)\$ queue](#), submitted, 15 pages.
3. **A. Iksanov**, Z. Kabluchko. [Functional limit theorems for Galton-Watson processes with very active immigration](#), submitted, 15 pages.
4. A.V. Nikitin. [Conditions of stability for Ito-Skorokhod stochastic differential equations in Hilbert spaces](#), submitted, 5 pages.
5. **D. Proskurin**, L. Turowska, **R. Yakymiv**. [On well-behaved representations of \$\(\lambda\)\$ -deformed CCR](#), submitted, 14 pages.
6. D. Buraczewski, P. Dyszewski, **A. Iksanov**, **A. Marynych**. [On perpetuities with gamma-like tails](#), submitted, 20 pages.

Publications 2017:

1. G. Alsmeyer, **A. Iksanov**, **A. Marynych**. [Functional limit theorems for the number of occupied boxes in the Bernoulli sieve](#), *Stochastic Processes and their Applications*, 127, no. 3, 995-1017.
2. **A. Iksanov**, W. Jedidi, F. Bouzeffour. [A law of the iterated logarithm for the number of occupied boxes in the Bernoulli sieve](#), *Statistics and Probability Letters*, in press.
3. G. Alsmeyer, Z. Kabluchko, **A. Marynych**. [A leader-election procedure using records](#), *Annals of Probability*, in press.

4. A. Iksanov, Z. Kabluchko, A. Marynych, G. Shevchenko. [Fractionally integrated inverse stable subordinators](#),
Stochastic Processes and their Applications, 127, no. 1, 80-106.
5. A. Iksanov, A. Marynych, M. Meiners. [Asymptotics of random processes with immigration I: scaling limits](#), Bernoulli, 23, no. 2, 1233-1278 ([link](#) to the official webpage).
6. A. Iksanov, A. Marynych, M. Meiners. [Asymptotics of random processes with immigration II: convergence to stationarity](#), Bernoulli, 23, no. 2, 1279-1298 ([link](#) to the official journal webpage).
7. A. Iksanov, A. Pilipenko, I. Samoilenko. [Functional limit theorems for the maxima of perturbed random walks and divergent perpetuities in the M1-topology](#), Extremes, in press.
8. Z. Kabluchko, A. Marynych, H. Sulzbach. [General Edgeworth expansions with applications to profiles of random trees](#), Annals of Applied Probability, in press.
9. I. Protasov, S. Slobodianiuk. [A note on factoring groups into dense subsets](#), Journal of Group Theory, 20, no. 1, 33-38.
10. A. Yurachivsky. [Limit distribution of a Generalized Ornstein-Uhlenbeck process](#), International Journal of Probability and Statistics, 6, no. 1, 24-39.

Publications 2016:

1. G. Alsmeyer, Z. Kabluchko, A. Marynych. [Leader election using random walks](#), ALEA - Latin American Journal of Probability and Statistics, no. 13, 1095-1122.
2. G. Alsmeyer, A. Marynych. [Renewal approximation for the absorption time of a decreasing Markov chain](#), Journal of Applied Probability, 53, no. 3, 765-782.
3. A. Iksanov, Z. Kabluchko. [A central limit theorem and a law of iterated logarithm for the Biggins martingale of the supercritical branching random walk](#)

Journal of Applied Probability, 53, no. 4, 1178-1192

4. **A. Iksanov**, Z. Kabluchko, **A. Marynych**. [Weak convergence of renewal shot noise processes in the case of slowly varying normalization](#), Statistics and Probability Letters, 114, 67-77.

5. **A. Iksanov**, Z. Kabluchko, **A. Marynych**. [Local universality for real roots of random trigonometric polynomials](#), Electronic Journal of Probability, 21, paper no. 68, 1-19.

6. **A. Iksanov**, **A. Marynych**, M. Meiners. [Moment convergence of first-passage times in renewal theory](#), Statistics and Probability Letters, 119, 134-143.

7. **A. Iksanov**, A. Pilipenko. [A functional limit theorem for locally perturbed random walks](#), Probability and Mathematical Statistics, 36, no. 2, 353-368.

8. A. Iksanov, S. Polotskiy. [Tail behavior of suprema of perturbed random walks](#), Theory of Stochastic Processes, 21(37), no. 1, 12-16.

9. Z. Kabluchko, **A. Marynych**. [Renewal shot noise processes in the case of slowly varying tails](#), Theory of Stochastic Processes, in press.

10. Z. Kabluchko, **A. Marynych**, H. Sulzbach. [Mode and Edgeworth expansion for the Ewens distribution](#), Journal of Integer Sequences, 19, Article 16.8.8.

11. V. S. Koroliuk, N. Limnios, **I. V. Samoilenko**. [Lévy and Poisson approximations of switched stochastic systems by a semimartingale approach](#), Comptes Rendus Mathématique, 354, 723-728.

12. V. S. Koroliuk, **I. V. Samoilenko**. [Large deviations problem for random evolution processes](#), Theory of Probability and Mathematical Statistics, 93, 93-101.

13. **I. Matsak**, I. Rozora. [The asymptotic behaviour of a counting process in the max-scheme. A discrete case](#), Georgian Mathematical Journal, 23, no. 3, 405-416.

14. **I. Protasov**. [Generating countable groups by discrete subsets](#), Topology and its Applications, 204, 253-286.

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16. **I. Protasov**, K. Protasova. [The comb-like representations of cellular ordinal balls](#), Algebra and Discrete Mathematics, 21, 282-286.

17. **I. Protasov**, S. Slobodianiuk. [Ultrafilters on balleanes](#) , Ukrainian Mathematical Journal, 67, no. 12, 1922-1931
18. **I. Protasov**, S. Slobodianiuk. [Note: A conjecture on partitions of groups](#) , Combinatorica, 36, 365-369

Publications 2015:

1. G. Alsmeyer, **A. Iksanov**, M. Meiners. [Power and exponential moments of the number of visits and related quantities for perturbed random walks](#), Journal of Theoretical Probability, 28, 1-40.
2. F. Aurzada, **A. Iksanov**, M. Meiners. [Exponential moments of first passage times and related quantities for Levy processes](#) , Mathematische Nachrichten, 288, no. 17-18, 1921-1938.
3. D. Buraczewski, **A. Iksanov**. [Functional limit theorems for divergent perpetuities in the contractive case](#) , Electronic Communications in Probability, 20, no. 10, 1-14.
4. **A. Iksanov**, **A. Marynych**, V. Vatutin. [Weak convergence of finite-dimensional distributions of the number of empty boxes in the Bernoulli sieve](#). Theory of Probability and its Applications, 59, 87-113.
5. **A. Iksanov**, M. Meiners. [Rate of convergence in the law of large numbers for supercritical general multi-type branching processes](#) , Stochastic Processes and their Applications, 125, 708-738.
6. **A. Iksanov**, M. Meiners. [Fixed points of multivariate smoothing transforms with scalar weights](#) , ALEA - Latin American Journal of Probability and Statistics, 12, 69-114.
7. **A. Iksanov**, V. Topchii, V. Vatutin. [A two-type Bellman-Harris process initiated by a large number of particles](#) , Acta Applicandae Mathematicae, 138, 279-312.
8. A. Marynych. [A note on convergence to stationarity of random processes with immigration](#) , Theory of Stochastic Processes, 20(36), no. 1, 84-100.
9. O. Petrenko, **I. Protasov**. [Ultrafilters on G-spaces](#) , Algebra and Discrete Mathematics, 19, 254-269.
10. **I. Protasov**, S. Slobodianiuk. [Partitions of groups into large subsets](#) , Journal of Group Theory, 18, no. 2, 91-298.

11. **I. Protasov**, S. Slobodianiuk. [The dynamical look at the subsets of a group](#) , Applied General Topology, 16, 217-224.
12. T. Banach, **I. Protasov**, S. Slobodianiuk. [Scattered subsets of groups](#) , Ukrainian Mathematical Journal, 67, 304-312.
13. I.V. Samoilenko. [Large deviations for random evolutions with independent increments in the scheme of Lévy approximation with split and double merging](#) , Random Operators and Stochastic Equations, 22, no. 2, 137-149.
14. I.V. Samoilenko. [Large deviations for random evolutions with independent increments in a scheme of Lévy approximation](#), Journal of Mathematical Sciences, 210, no. 1, 52-66.
15. V.A. Topchii, V.A. Vatutin, **A.M. Iksanov**, Evolution of a two-type Bellman-Harris process generated by a large number of particles, Proceedings of the XVI-th international summer conference on Probability and Statistics, Seminar on Statistical Data Analysis, Workshop on Branching Processes and Applications, 21-29 June, 2015, Pomorie, Bulgaria, PLISKA Studia Mathematica, 24, 89-98.
16. A. Yurachivsky. [Extension of measure without recourse to outer measure](#) , Mathematica Aeterna, 5, no. 5, 449-464.
17. A.Nikitin. [Asymptotic Properties of a Stochastic Diffusion Transfer Process with an Equilibrium Point of a Quality Criterion](#) , Cybernetics and system analysis, 51, no. 4, 650-656.
18. A. Ivanov, **I. Matsak**, **S. Polotskiy**. [Extreme residuals in regression model. Minimax approach](#) , Modern Stochastics: Theory and Applications, 2, no. 3, 297-308.
19. **D. Proskurin**, L. Turowska. [Shilov boundary for "Holomorphic Functions" on a Quantum Matrix Ball](#) , Algebras and Representation Theory, 18, no. 4, 917-929.

Publications 2014:

1. A. Gnedin, **A. Iksanov**, **A. Marynych**, M. Moehle. [On asymptotics of the beta coalescents](#) , Advances in Applied Probability, 46, no. 2, 496-515.
2. A. Gnedin, **A. Iksanov**, **A. Marynych**. [Lambda-coalescents: a survey](#) , Journal of Applied Probability, Special Volume 51A, 23-40.

3. **A. Iksanov**, **A. Marynych**, M. Meiners. [Limit theorems for renewal shot noise processes with eventually decreasing response functions](#) , Stochastic Processes and their Applications, 124, no. 6, 2131-2170.
4. **A. Iksanov**, A. Pilipenko. [On the maximum of a perturbed random walk](#) , Statistics and Probability Letters, 92, 168-172.
5. V.S. Koroliuk, **I.V. Samoilenko**. [Large deviations for random evolutions in the scheme of asymptotically small diffusion](#) , Modern stochastics and applications, Springer optimization and its applications, 90, 201-217.
6. **A. Marynych**, G. Verovkin. [Weak convergence of the number of zero increments in the random walk with barrier](#) , Electronic Communications in Probability, 19, paper no. 74, 1-11.
7. O. Petrenko, **I. Protasov**, S. Slobodianiuk. [Asymptotic structures of cardinals](#) , Applied General Topology, 15, 137-146.
8. I. Protasov. [Ultrafilters on metric spaces](#) . Topology and its Applications, 164, 207–214.
9. **I. Protasov**, S. Slobodianiuk. On the subset combinatorics of G-spaces, Algebra Discrete and Mathematics, 17, 98–109.
10. **I. Protasov**, S. Slobodyanyuk. [Thin subsets of groups](#) , Ukrainian Mathematical Journal, 65, 1384-1393.
11. I. Protasov, Sparse and thin metric spaces, Matematychni Studii, 41, 92–100.
12. T. Banach, **I. Protasov**, O. Sipachova Topologization of a set endowed with an action of a monoid, Topology and Applications, 169, 161–174.
13. **I. Protasov**, K. Protasova, Kaleidoscopic configurations, Math. Sciences, 2000, no. 3, 352–357.
14. **I. Protasov**, S. Slobodianiuk, Ultracompanions of subsets of a group, Commentationes Mathematicae Universitatis Carolinae, 52, no. 2, 257–265.
15. **I. Protasov**, S. Slobodianiuk. [Partitions of groups](#) , Matematychni Studii, 42, 115–128.
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17. A. Yurachivsky. [A conditional mean square estimate for the solution of a SDE](#) , International Journal of Statistics and Probability, 3, no. 4, 1-11.